21	\sim	n	2	Λ	О	4	1	_	1
~	w	.,	Ľ	u	റ	4	+	()·	- 1

CLAIMS

10

15

What is claimed is:

5 1. A method of dynamically changing rack capacity on demand, said method comprising:

receiving a rack equipment capacity alteration request;

performing an analysis of said rack equipment capacity alteration request; and changing performance of rack equipment in accordance with said analysis of said rack equipment capacity alteration request.

- 2. The method of claim 1, wherein changing said performance of said rack equipment includes said altering said rack equipment performance settings.
- 3. The method of claim 1, wherein changing said performance of said rack equipment includes changing performance capacity by said rack equipment in accordance with said capacity demand plan.
- 4. The method of claim 3, wherein said capacity demand plan indicates an increase in a voltage and a frequency of said rack equipment when a demand for capacity increases.
- 5. The method of claim 3, wherein said change in said performance of said rack25 equipment corresponds to a change in a clients business requirements.

25

- 6. The method of claim 1, wherein said controlling said operation comprises automatically changing said performance interactively.
- 7. The method of claim 1, further comprising verifying a payment associated with5 said rack equipment capacity alteration request is made.
 - 8. A rack equipment capacity on demand system comprising: rack equipment for processing data;
- a capacity demand plan component for controlling operational changes to said 10 rack equipment based on a capacity demand plan; and
 - a communications bus for coupling said equipment and said capacity control component, wherein said communications bus is utilized for communicating information between said capacity control component and said rack equipment.
- 15 9. The rack equipment capacity on demand system of claim 8, wherein said capacity demand plan component controls the amount of rack equipment resources assigned to an application.
- 10. The rack equipment capacity on demand system of claim 8, wherein said20 capacity demand plan component switches on and off said rack equipment in accordance with said capacity demand plan.
 - 11. The rack equipment capacity on demand system of claim 8, further comprising a master management control center for coordinating control of rack equipment among a plurality of racks.

5

- 12. The rack equipment capacity on demand system of claim 8, wherein said capacity demand plan policy is dynamically adjustable on the fly.
- 13. The rack equipment capacity on demand system of claim 8, wherein said capacity demand plan policy is structured in accordance with business needs of a client.
- 14. The rack equipment capacity on demand system of claim 8, further comprising:
 a memory for storing equipment information and capacity demand plan
 information; and
 - a cross indexing component for cross indexing said equipment information and said capacity demand plan policy information.
- 15. A computer-useable storage medium comprising computer-readable program
 15 code embodied therein for causing a computer system to implement a power pricing performance instructions comprising:
 - a capacity demand detection module for detecting indications of requests for capacity demand changes covered by a capacity demand plan;
- a capacity demand administration module for administering examination of capacity demand changes; and
 - an instruction generation module for generating rack equipment performance adjustment commands to implement said capacity demand plan instructions.
- 16. The computer storage medium of claim 15, further comprising a telemetry25 monitoring module for monitoring characteristics and activity of rack equipment associated with said adjustments commands.

10

- 17. The computer storage medium of claim 15, further comprising a event spawning module for generating power pricing events.
- 5 18. The computer storage medium of claim 15, wherein said instruction generation module comprises functionality for generating a command to postpone processing.
 - 19. The computer storage medium of claim 15, wherein said capacity demand plan information is an agreement between a host and a client and is structured in manner to accommodate business activities of said client.
 - 20. The computer storage medium of claim 15, wherein said telemetry monitoring module also confirms said performance adjustments commands are complied with.